G: picture

C: m∠1 + m∠2 = m∠ABC



G: bisects ∠ABC

C: m∠1 = m∠2 (∠1 ≅ ∠2)



G: picture

C: AB + BC = AC

G: B is the midpoint of

C: AB = BC ()

G: ∠1 and ∠2 are supplementary

∠3 and ∠2 are supplementary

C: ∠1 ≅ ∠3

G: ∠4 and ∠5 are complementary

∠6 and ∠7 are complementary

∠4 ≅ ∠6

C: ∠5 ≅ ∠7



G: picture

C: ∠1 ≅ ∠2

R: A. A.P.

R: def. of ∠ bisector

R: S. A. P.

R: Def. of midpoint

R: ≅ Supplements Theorem

R: ≅ Complements Theorem

R: Vertical angles are ≅

G: ∠4 and ∠5 are supplementary

C: m∠4 + m∠5 = 180

G: m∠4 + m∠5 = 180

C: ∠4 and ∠5 are supplementary

G: ∠4 and ∠5 are complementary

C: m∠4 + m∠5 = 90

G: m∠4 + m∠5 = 90

C: ∠4 and ∠5 are complementary



G:

C: ∠ABC is a right angle



G: ∠ABC is a right angle

C:

G: ∠ABC is a right angle

C: m∠ABC = 90

G: m∠ABC = 90

C: ∠ABC is a right angle

R: Def. of supplementary

R: Def. of supplementary

R: Def. of complementary

R: Def. of complementary

R: def. of perpendicular lines

R: def. of perpendicular lines

R: Def. of right angle

R: def. of right angle

G: picture

C#1: ∠1 and ∠2 are a linear pair

C#2: ∠1 and ∠2 are supplementary



G: ∠ABC is a right angle

C: ∠3 and ∠4 are complementary

G: ∠1 ≅ ∠2

C: m∠1 = m∠2

G: m∠1 = m∠2

C: ∠1 ≅ ∠2

G: AB = BC; EF = GH

C: AB + EF = BC + GH

G: AB + BC = EF + GH; BC = EF

C: AB = GH

G: AB = BC

C: BC = AB

G: m∠1 + m∠1 = 180

C: 2m∠1 = 180

G: m∠1 = m∠2; m∠2 = m∠3

C: m∠1 = m∠3

R#1: Def. of linear pair

R #2: L.P.P.

R: The complement theorem

R: def. of congruence

R: def. of congruence

R: addition

R: subtraction

R: symmetric

R: substitution

R: transitive